

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/762,249

DATE: 07/27/2001

TIME: 20:05:55

Input Set : A:\65691208.app

Output Set: N:\CRF3\07272001\I762249.raw

ENTERED

```

3 <110> APPLICANT: AMSON, ROBERT
4   TELERMAN, ADAM
6 <120> TITLE OF INVENTION: SEQUENCES ASSOCIATED WITH CANCER SUPPRESSION AND WITH
7   RESISTANCE TO THE H-1 PARVOVIRUS
9 <130> FILE REFERENCE: 065691/208
11 <140> CURRENT APPLICATION NUMBER: 09/762,249
12 <141> CURRENT FILING DATE: 2001-02-05
14 <160> NUMBER OF SEQ ID NOS: 15
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 303
20 <212> TYPE: DNA
21 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
24 <223> OTHER INFORMATION: TSAP9
26 <400> SEQUENCE: 1
27 tcggtcatag tctggatggg attcatgata tgaagcaaca gcatgtcata gaaaccttga 60
28 ttggcaaaaa gcaacagata tctcttgcaa cacaaatggg tagaatgatt ttgaagattg 120
29 atgacattcg taagcctgga gaatctgaag aatgaagaca ttgagaaaac tatgtagtaa 180
30 gatccacttc tgtgattaag taaatggatg tctcgtgatg cgtctacagt tatttattgt 240
31 tacatccttt tccagacact gtagatgcta taataaaaat agctgttttg ttaaaaaaaaaa 300
32 aaa
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 1356
37 <212> TYPE: DNA
38 <213> ORGANISM: Homo sapiens
40 <220> FEATURE:
41 <223> OTHER INFORMATION: TSAP10
43 <400> SEQUENCE: 2
44 tgagcagggc gacggcgggc gtggaacctg cggggctggg gcgcccgcct gggcgccctgc 60
45 actgcactga ggaccgggtg ccggaccggg gggcgggcgac atgcagcagc tgaaccagct 120
46 gggcgcgcac gagttctcag ccctgacaga ggtgcttttc cacttcctaa ctgagccaaa 180
47 agaggtggaa agattttctg ctcagctctc tgaatttgcc accaccaatc agatcagctc 240
48 tggctccctc agaagcatcg tgaaaagcct ccttctggtt ccaaattggg ctttgaagaa 300
49 gagtctcaca gccaagcagg tccaggcgga ttccataact ctgggtctta gtgaggagaa 360
50 agccacttac ttttctgaaa agtggaaagca gaatgctccc acccttgctc gatgggccat 420
51 aggtcagact ctgatgatta accagctcat agatatggag tggaaatttg gagtgcacac 480
52 tgggagcagc gaattggaga aagtgggaag tatattttta caactaaagt tgggtggttaa 540
53 gaaaggaaat caaacggaaa atgtgtatat agaattaacc ttgcctcagt tctacagctt 600
54 cctgcacgag atggagcgag tcagaaccag catggagtgt ttctgctgat ttctgtccct 660
55 gcatctcccc tggccccggt ccctgccctc ctcccttccc tgggtgactg ctctgagagg 720
56 cacttcactc acaggcctgt gggatgctcc atggggccct gctggctcca tggggcccg 780
57 gtgcaaaggg tttctgaaaa acagcaggat taagtactga aagagcccaa cacaattacc 840
58 ctgtaaaact tctgttaggg caaccaccac cacctgtctt ccaggacaca tttttagata 900
59 ctctgacagg ccactgcac tcagattcag gggagaaaat aagttgtcac ctcccttca 960
60 aagttccaga gtaaacaat ggtgccatca ttcaagataa catgctgatc accctcctcc 1020
61 caaaaagcaa gagcttggtt atggctgagg aatcggcgga ttgtctgaat gacacatata 1080

```

RAW SEQUENCE LISTING

DATE: 07/27/2001

PATENT APPLICATION: US/09/762,249

TIME: 20:05:55

Input Set : A:\65691208.app

Output Set: N:\CRF3\07272001\I762249.raw

```

62 cagagccccc acggatttct gcacactctg ggtctgtgct ggtggaacat tgccaatcag 1140
63 ttcttaatga ggcacctgtg tgtaaataca tgcttggtct tctctgcaga gaactgaggc 1200
64 taaactctgt cctactttct ggttttgccc tgtcatgtcg taacgagggtg ggccttttga 1260
65 ggccatttta gtttgagtgc gaaccaacca cctctgttgg ttagatgatg aataaaaagg 1320
66 ttctgaagaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1356
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 100
71 <212> TYPE: DNA
72 <213> ORGANISM: Homo sapiens
74 <220> FEATURE:
75 <223> OTHER INFORMATION: TSAP11
77 <400> SEQUENCE: 3
78 tcgggtcatag cggttccaag attagcttct actgcttcct gtagcttggc taatatactc 60
79 tgctttacag ctgatgatat ggtgttggtta aaaaaaaaaa 100
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 467
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapiens
87 <220> FEATURE:
88 <223> OTHER INFORMATION: TSAP12
90 <400> SEQUENCE: 4
91 tcgggtcatag taaatttcagc atgaaagaga atattacaga aaagacagca gcagaagcat 60
92 tagcattatc taatatttat atatgttatc aacataacac agcagtaaaa ggtttaaatg 120
93 catatcaatg ggtaccatgt ctaaaaatta ctatagtacc tatttagtgt attggatatt 180
94 tttcttaaag agtgtttgct gtaactagaa cagcataata catgatttag tacagttaat 240
95 tcttattgat taaataatgt atttatgtac tgaagaaagt gaaaaggaga cagatatttt 300
96 ttgcttcatt ttgattccag atttaacatt taaatgaaga ttccaaagga ccatgacatg 360
97 tcattattta actgaaatgg gcttcaaaat atttaaaaga cggatgatt tgatatctaa 420
98 cagcaagggtg gcaccagata cacgtaatgc tactggccta tgaccga 467
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 1547
103 <212> TYPE: DNA
104 <213> ORGANISM: Homo sapiens
106 <220> FEATURE:
107 <223> OTHER INFORMATION: TSAP13 PROTEASOME HOMOLOGUE
109 <400> SEQUENCE: 5
110 tttttttttt tttttttttt ttttttaaca aagcagaggg gtttattata ggaacattct 60
111 caaactgcaa cggaaaagat gtccgtacag gtggatgggg atggagatcc acctcggagt 120
112 acacagactt cagggggcct cctgcctggc acgttcttct tctcccgat cacctaagac 180
113 cctgagacct ccaccctctg caggagagac ccacaaagaa gcctcctccc tgtggcctgg 240
114 ctcccatcag ggacagtccct gtttttagag caagaacagt ctgtacttca gacaggatcc 300
115 caacccccac ccaaattcaa tgtcgaccgt ctgagcagcc agcttcattg gctgcaaacg 360
116 cctctctcag gtgagtcaaa ggagacacga cggggaacca gggggcccta ggtgaggatg 420
117 tcatgggcct ggtgctccac cagcatctcc atgctcttca catccgtgca ccagaactcc 480
118 aggcggtcct tcattccctt gatctgttgc aaatccaaca ctcggggctg caccaggtc 540
119 atgtggactc gtttgctcac ctgcgtctata ctgcctttca ccagccccac cgaaagggcc 600
120 ttcatcacca gaagctccac ctcatctact gtgattttag cacttttggc aatttcttca 660
121 aaagtgaagt gtctgtgatt ggcaggctcg gtgaaagtca tctccatgag gcacaacaac 720
122 tgaattttcc tcagaagctg ggcttcatta gctgctaaat caggctgctg gccccaggca 780

```

RAW SEQUENCE LISTING

DATE: 07/27/2001

PATENT APPLICATION: US/09/762,249

TIME: 20:05:55

Input Set : A:\65691208.app

Output Set: N:\CRF3\07272001\I762249.raw

```

123 gtcttcagag tctggaaccg ctctacgttg ccactgttga aggcataagag ggtgtcaatc 840
124 agccactgcc ggtcagtatt cctcagggac tccagcacag ggtgcatgag gagttctcca 900
125 aagttaaaaa ctccctcgcc gagaagtcct gctagcccca gcgtgaaggc tctctcctgc 960
126 tgctcagaca ctggtagatc cttgatgtca acacagccca aaaaccgcag agcatctttg 1020
127 tagtaggacg cgtggtttcc gattgtttga tagtatttac tggagagatc atagaaacga 1080
128 ctgtgaaccg atgtcacacc aggaaggttg ttgagcattt cttcaacatc ttcaattggt 1140
129 tcctttgtaa cctgtaggtc cccgatgttt aatttttagag ctccaattgc tgttttacac 1200
130 aggatcactg cctcatcact acttttcacc ttctcacgag tcttttccag aaaagtaaga 1260
131 gccacattag gatcagtcac ctgtctaaact acgtgaagaa tgatttccac gagggacaga 1320
132 ggattcaccc tgtgttcaaa ttcaactgata aagttttcat aaagcttaat gagaccatct 1380
133 ccttgggcaa agcacggatc ctgcacaaaa tcaagcacct gaagtgtcag ctgatgccac 1440
134 aacttcttcg tgtagagctc ctccagacgg tgccacacag cgggctgccc gggcccggag 1500
135 ctctggctct gctgtaggaa gcccggtacg tcttcatga cagcagg 1547
138 <210> SEQ ID NO: 6
139 <211> LENGTH: 102
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
143 <220> FEATURE:
144 <223> OTHER INFORMATION: TSAP14
146 <400> SEQUENCE: 6
147 ggaaccaatc ctaaagaata ttcttacata taataaagaa ttcccatttg atgttcagcc 60
148 tgtcccatta agaagaattt tggcacctgg taaaaaaaaa aa 102
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 1825
153 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapiens
156 <220> FEATURE:
157 <223> OTHER INFORMATION: TSAP15
159 <400> SEQUENCE: 7
160 tcggcctttc acctcttcac ttatccttag tcccagtagc caggatacct gatggccacg 60
161 tgtgccttgg ccacgggagg ctgctgagat tggccacgtg gctgggctgg gtgggtggcct 120
162 cactctccca cagagctgga aatgggggggt gggggacaga ttcttacgga aattttttta 180
163 cctgacttgc tatgaaaaaa ctcatcacac aagaagagaa acagtaacct cactttgaaa 240
164 attagctcca ctcaagacta gtccacgaac gagaccgccc ttttctacac aggatccaag 300
165 ctcacgagaa gcagccagag tgccccgcct ccgcccgtc tggctctgcca ttccgacgtg 360
166 cagggatctg gcattggacca gatgtggcga atggcagcac agcgcgggtg ctgggtctgc 420
167 aactggcct ctgcagccag atttctatat tgggagtttt ttaaaaagac atttcatagc 480
168 caacaagaat cagtagaagt gctgggagca gcagctgggg aagctgccgc ccacgggctc 540
169 tgccccctcc agctggagcc gcccggtgct ccaggggcca agaggatgat gtcgtggcct 600
170 ccattctcgt ttctatgcag ccccatagtc caaggacacc cagtcacat ctaccatata 660
171 gcaagtttag taagggaagg cagcatacgt cccagggaca gtgggttttg atctgtctag 720
172 aacagcgggt tgtggctgtg gccagctcc gagagtgata tttgctctgg taggtgagg 780
173 cctgagggta catttctcca cctgtgcccc ctcatgttca cagaggattt cagcagctgc 840
174 aactgcgcac gccaggtggg gaagggtggg ggtgggcctg gttgccccat gttaggaaat 900
175 cactaccagt caggtggggc tggggctggg tggacaggat caggattccc ttgaaagccc 960
176 aggcagggtg agcagtccca gtggtcctag tgccgcacat gatccagggt ggtgagggca 1020
177 ggaggccatg cggaggagcc gtggatctag ccacacatag gctactggaa tagtttaacc 1080
178 cagcaacttt cttttttata aaacaacaa tcggttcaac tctgtctgca aattaacagc 1140
179 tgaacacctg caactgaaat gttttttgat ccgacgtact gaaatacggg agtcatgctc 1200

```

RAW SEQUENCE LISTING

DATE: 07/27/2001

PATENT APPLICATION: US/09/762,249

TIME: 20:05:55

Input Set : A:\65691208.app

Output Set: N:\CRF3\07272001\I762249.raw

```

180 ttccccaccct ccaccaccca gagtggaaacc cgtgcaaaa tccccagcct taattcttgc 1260
181 ttcaggacccc agaccggtgt cttgctctag ggcaaccagc gccagagggg ccaggctctgc 1320
182 ccagcgttta cactgctgt caagcacagc ccttggcacc atacgggcca tctcagtga 1380
183 ggcagccccc cataggcttc cgcaagctct ggtcccgaag aggctgtgcg agcccttccc 1440
184 ggccctcccc agggcccccg cccctcctc tgcctgctgc gtggaggcag ccatgggaag 1500
185 gagcccaggg gagctggcct gggggagcga agcccatgtt cgcttcctga cttagagctg 1560
186 gggggggtgg ggggtggggc ttgttcccct gcagtatctg ttctgtgaag tttgttaaat 1620
187 gtaaggaaaag cttaaattct tgtatcttta aaagagaaaa tcttatttaa cccttttgtg 1680
188 ttctagattt acttacacac atagcctaga gctcagtttt agttttaaca ttgtgaaaat 1740
189 attaaaagaa tcttgttaact ttattctttt ttctcctgct gaaaaaaaaa attaaacca 1800
190 tcgtatgaaa aaaaaaaaaa aaaaa 1825
193 <210> SEQ ID NO: 8
194 <211> LENGTH: 90
195 <212> TYPE: DNA
196 <213> ORGANISM: Homo sapiens
198 <220> FEATURE:
199 <223> OTHER INFORMATION: TSAP16
201 <400> SEQUENCE: 8
202 tggattggtc caggattggg gttttgctag tccatagcaa ttcgaagggc agtgggctag 60
203 tgttatgaga atattggcaa aaaaaaaaaa 90
206 <210> SEQ ID NO: 9
207 <211> LENGTH: 131
208 <212> TYPE: DNA
209 <213> ORGANISM: Homo sapiens
211 <220> FEATURE:
212 <223> OTHER INFORMATION: TSAP17
214 <400> SEQUENCE: 9
215 ctgcttgatg taggagggat taagttagta tttcccgat cgaccaagac aaaattacaa 60
216 tatacgcata acaaagacaa acaccagtta cttggctcaa tatccaagtt ttaacctagc 120
217 aaaaaaaaaa a 131
220 <210> SEQ ID NO: 10
221 <211> LENGTH: 121
222 <212> TYPE: DNA
223 <213> ORGANISM: Homo sapiens
225 <220> FEATURE:
226 <223> OTHER INFORMATION: TSAP18
228 <400> SEQUENCE: 10
229 ggaaccaatc ccaacacaac tggattctac tgaaattacc acatatttga ggtccacaag 60
230 cacaagtata gatctaattgc aaactgggct cagattagca gatccatgcc aaaaaaaaaa 120
231 a 121
234 <210> SEQ ID NO: 11
235 <211> LENGTH: 893
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <220> FEATURE:
240 <223> OTHER INFORMATION: TSAP19
242 <400> SEQUENCE: 11
243 atggagggcc acatctgcc aagcctggag tctgcgaagg ccgggacccg gttccccggc 60
244 ccacagtggg ggtgtgcaaa cccgagagaa ctgggttgca aattcgtgaa gaatcagcat 120

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/762,249

DATE: 07/27/2001

TIME: 20:05:55

Input Set : A:\65691208.app

Output Set: N:\CRF3\07272001\I762249.raw

```

245 catgtttggc agctgagtat tggagccagg agcctgccat gaggttttga gaacagagtg 180
246 ctgtttttaga gctggcagca gcatctcagc ccaagagaag gttatattcc cagaggatgt 240
247 cagtcccaag gaccagtagc tgccatcagt ttggattctg aaaactaact ggcatcaaca 300
248 ctgggtgtag aaacatgctt gccttatgta tcagaggaca tgctcagcag atccaagaga 360
249 tatatttggc aactttttct agaaaaggca cattgggtat cattcattac attcttgagt 420
250 ttttttgggt tttttttttt ttttttgaga cagtcttgct gtattgcccga ggctggagtg 480
251 tgggtggcaca atcacagctc attgcatcct caatcaccca ggcctaagca atcctcccac 540
252 ctgttagctg ggactacagc tcacagcaca cctggctaaa attttttttt tgttgagacg 600
253 gattctctat gttgcccagg ctggtctcag gctcctgggc tcagatggtc ctctgctc 660
254 agcttccaaa ggcacaggcc aagttgtagc tttgtccctt gccatcatgc ccaacaagag 720
255 gttctatacc ttttaatgaa ttgactttca taaattgggt atgttggtgg gcaagttctt 780
256 taagctggaa attgtaaatt cctcctgaaa tgttttttca tgcagttacc atgaactaat 840
257 actacaataa aggatggctt tgggtgtcaa aaaaaaaaaa aaaaaaaaaa aaa 893

```

260 <210> SEQ ID NO: 12

261 <211> LENGTH: 151

262 <212> TYPE: DNA

263 <213> ORGANISM: Homo sapiens

265 <220> FEATURE:

266 <223> OTHER INFORMATION: TSAP20

268 <400> SEQUENCE: 12

```

269 gatctgactg tagggactat attcattact gctggactat gctgctttcc ccaaccccct 60
270 aggattttaa aaatagcacg ctgcacttga aacaggggaa gacactgtat aacatccaaa 120
271 tgttcttctt ccctagaggc caaaaaaaaa a 151

```

274 <210> SEQ ID NO: 13

275 <211> LENGTH: 1295

276 <212> TYPE: DNA

277 <213> ORGANISM: Homo sapiens

279 <220> FEATURE:

280 <223> OTHER INFORMATION: TSAP21 SNARE HOMOLOGUE

282 <400> SEQUENCE: 13

```

283 atccagcgcc agctggagat catgggcaag gaagtctcgg gcgaccagat cgaggacatg 60
284 ttcgagcagg gtaagtggga cgtgttttcc gagaacttgc tggccgacgt gaaggcgcg 120
285 cgggcccggc tcaacgagat cgagagccgc caccgcgaac tgctgcgcct ggagagccgc 180
286 atccgcgcag tacacgagct cttcttgagc atggcggtgc tgggtggagaa gcaggccgac 240
287 accctgaacg tcatcgagct caacgtacaa aagacggtcg actacaccgg ccaggccaag 300
288 gcgcaggtgc ggaaggccgt gcagtacgag gagaagaacc cctgccggac cctctgctgc 360
289 ttctgctgtc cctgcctcaa gtagcaggcc ggcccgggccc gccaccgccc atcccagacc 420
290 atggagcgcg ctgggaagga cgtcaccaaa gccgggagct ctgcctgca gggagttgcc 480
291 ccaacccttt ccggaactca gtcttttagaa aagaaacgcc aggttcaaga attgcaaacc 540
292 agcctgtgct tggaaagatg gttagttgat accgtccgat gattcttcag taaagataga 600
293 tccccacaaa gttgtgcaat gtcattatat gacaccttgc actcttaccg tcttgacaga 660
294 agccaagtaa ggaactgaag ttgtatctga ctgtagggtg aatgtctgag gcctgcctcc 720
295 taataaagac tcaaggagga agtcaattgg gcatctgcta atagaatgaa ctcatgatgg 780
296 aaacttcagt tcatcttact tgtccctgaa aattccctgg ttctgttcca ttttgagcga 840
297 aattggcctt gggaaaaacc acgttcttcc tttccgattc ttcacccggc ctacggctat 900
298 gcaattcctc cccaaatata gatcttattt ctgctcattt cccctactta ttaaaatcac 960
299 accaaacact tactattttt ttatctcttt cactttttta atatctttca ccaggttata 1020
300 ttttgggtatt attttttcaa acatttttaa gcactgaata tcgaacaagc actcaaattg 1080
301 aagtatcagt catgttttgt gtatttttctg ctgataaaaa ttatttaaca tttatatattt 1140

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/762,249

DATE: 07/27/2001

TIME: 20:05:56

Input Set : A:\65691208.app

Output Set: N:\CRF3\07272001\I762249.raw